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Docket Number

PETITION FOR REVIVAL OF AN INTERNATIONAL APPLICATION FOR DESIGNATING THE U.S. ABANDONED UNINTENTIONALLY UNDER	OR PATENT 2 37 CFR 1.137(b)	(Optional) KIRN:002US
First Named Inventor: David Kirn		
International (PCT) Application No.: PCT/US03/25141	U.S. Application N (if known)	O.: 10/524,932
Filed: 02/14/2005	(ii kii ciiii)	
Title: METHODS AND COMPOSITIONS CONCERNING POXVIRUSES AND CANCE	R	
Attention: PCT Legal Staff Mail Stop PCT Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450		
The above-identified application became abandoned as to the United Strequired by 35 U.S.C. 371(c) were not filed prior to the expiration of applicable. The date of abandonment is the day after the date on which due. See 37 CFR 1.495(h).	the time set in 37 CF	-R 1.495(b) or (c) as
APPLICANT HEREBY PETITIONS FOR REVIVAL OF	THIS APPLICATION	
NOTE: A grantable petition requires the following items:  (1) Petition fee  (2) Proper reply  (3) Terminal disclaimer with disclaimer fee which is having an international filing date before June 8,  (4) Statement that the entire delay was unintentional	1995; and	ational applications
1. Petition fee  Small entity - fee \$\frac{750.00}{2} (37 CFR 1.17(m)). Applicant cl  See 37 CFR 1.27.	aims small entity statı	us.
Other than small entity - fee \$(37 CFR 1.17(m))		
2. Proper reply	05 GFREY1 00000126 1	0524932
V3 FL:24		750.00 OP
A. The proper reply (the missing 35 U.S.C. 371(c) requirement(s)) in Trans. to the US/DO/EO Under Sec. 371 Submitting the Basic National Filing (identify the Fee, Examination Fee and Search Fee.  has been filed previously on	ype of reply):	
is enclosed herewith.	<del> </del>	
13 Cholodd Horoman.		

[Page 1 of 2]

This collection of information is required by 37 CFR 1.137(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Since this international application has an international filing date is required.	ate on or after June 8, 1995, no terminal disclaime
A terminal disclaimer (and disclaimer fee (37 CFR 1.20(d)) of \$ for other than a small entity) disclaiming the red (see PTO/SB/63).	\$ for a small entity or quired period of time is enclosed herewith
4. Statement. The entire delay in filing the required reply from the due filing of a grantable petition under 37 CFR 1.137(b) was unintention	e date for the required reply until the nal.
WARNING: Information on this form may become public be included on this form. Provide credit card information	. Credit card information should not on and authorization on PTO-2038.
X	08/23/05
Signature	Date
Gina N. Shishima	45,104
Typed or Printed Name	Registration Number, if applicable
Fulbright & Jaworski, LLP, 600 Congress Ave., Suite 2400,	512-536-3081
Address	Telephone Number
Austin, Texas 78701	
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Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)

ATTORNEY'S DOCKET NUMBER KIRN:002IS

U.S. APPLICATION NO. (If known, see 37 CFR 1.5) **CONCERNING A SUBMISSION UNDER 35 U.S.C. 371** 10/524.932 INTERNATIONAL APPLICATION NO. INTERNATIONAL FILING DATE PRIORITY DATE CLAIMED 08/11/2003 PCT/US03/25141 TITLE OF INVENTION METHODS AND COMPOSITIONS CONCERNING POXVIRUSES AND CANCER APPLICANT(S) FOR DO/EO/US David Kirn Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information: This is a FIRST submission of items concerning a submission under 35 U.S.C. 371. This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371. This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below. The US has been elected (Article 31). A copy of the International Application as filed (35 U.S.C. 371(c)(2)) is attached hereto (required only if not communicated by the International Bureau). has been communicated by the International Bureau. is not required, as the application was filed in the United States Receiving Office (RO/US). An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). is attached hereto. has been previously submitted under 35 U.S.C. 154(d)(4). Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) are attached hereto (required only if not communicated by the International Bureau). have been communicated by the International Bureau. have not been made; however, the time limit for making such amendments has NOT expired. have not been made and will not be made. An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)). 10. Items 11 to 20 below concern document(s) or information included: An Information Disclosure Statement under 37 CFR 1.97 and 1.98. An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. A preliminary amendment. An Application Data Sheet under 37 CFR 1.76. A substitute specification. 16. L A power of attorney and/or change of address letter. A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821- 1.825. [11] TOW! A second copy of the published International Application under 35 U.S.C. 154(d)(4). 18. L A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).

This collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS: SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450. Page 1 of 2

20.

Other items or information:

PTO-1390 (Rev. 02-2005)
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U.S. APPLICATION NO. (if known, see 37 CFR 1.5) INTERNATIONAL APPLICATION NO.		ATTORNEY'S DOCKET NUMBER				
10/524,932 PCT/US03/25141			KIRN:00	)2IS		
The following fees have been submitted			CALCULATIONS	PTO USE ONLY		
21. 🗹 Bas	21. 🗹 Basic national fee		\$ 300.00			
22. Examination fee  If International preliminary examination report prepared by USPTO and all claims satisfy provisions of PCT Article 33(1)-(4)		\$ 200.00				
Search fee (37 C International Sea	onal Searching Aut arch Report prepar	hority ed and provided t	ne international application to	\$100 \$400	\$ 500.00	
	TOTAL OF 21, 22	? and 23 =			\$ 1,000.00	
☐ sequence li	e for specification sting or computer	and drawings filed program listing filed	d in paper over 100 sheets (ex d in an electronic medium). paper or fraction thereof.	cluding		
Total Sheets	Extra Sheets		additional 50 or fraction up to a whole number)	RATE		
122 - 100 =	22 /50 =		50	x \$250	\$ 250.00	
Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(h)).			\$			
CLAIMS	NUMB	ER FILED	NUMBER EXTRA	RATE	\$	
Total claims		120 - 20 =	100	x \$ 50	\$	
Independent clair	ms	-3=		x \$200	\$	
MULTIPLE DEPI	ENDENT CLAIM(S	) (if applicable)		+ \$360	\$	
	<u> </u>		TOTAL OF ABOVE	CALCULATIONS =	\$ 1,250.00	
Applicant cla	ims small entity st	atus. See 37 CFR	1.27. Fees above are reduce	ed by ½.	625.00	
				SUBTOTAL =	\$ 625.00	
	f <b>\$130.00</b> for furnis ate (37 CFR 1.492		ranslation later than 30 month	ns from the earliest +	\$	
-			TOTAL	NATIONAL FEE =	\$	
			1.21(h)). The assignment mus <b>40.00</b> per property	t be accompanied +	\$	
			TOTAL FE	ES ENCLOSED =	\$ 625.00	
		,			Amount to be refunded:	\$
<u>:</u>		· <u> ;</u>			Amount to be charged:	\$
a. A chec	k in the amount of	\$ <u>625.00</u>	to cover the above	ve fees is enclosed.		
	charge my Depos		in the amount of \$	to co	ver the above fees.	
			charge any additional fees wh y of this sheet is enclosed.	ich may be required,	or credit any overpayment	to Deposit
d. Fees ar	e to be charged to	a credit card. WA	RNING: Information on this fo		lic. Credit card information	on should not
NOTE: Where as	n appropriate time	e limit under 37 (	erd information and authorizat		(37 CFR 1.137(a) or (b))	must be filed
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EXPRESS MAIL MAILING DATE:	NO: EV 44872058 August 22. 2005	35US		45,104		<u> </u>
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## International application No. INTERNATIONAL SEARCH REPORT PCT/US03/25141 CLASSIFICATION OF SUBJECT MATTER : C12Q 1/70; C12N 7/00 IPC(7) US CL 435/235.1,5 According to International Patent Classification (IPC) or to both national classification and IPC FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) U.S.: 435/235.1, 5 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) PUBMED, DERWENT DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. Category \* 1-5, 7, 8 SROLLER. V. Effect of IFN-gamma receptor gene deletion on vaccinia virus virulence Arch. Х Virol. 2001, Vol. 146. pages 239-249 Х ALCANI. A. The Vaccinia Virus Soluble Alpha/Beta Interferon (IFN) Receptor Binds to the 1-4, 7, 8, 37 Cell Surface and Protects Cells from the Antiviral Effects of IFN J. Virol. December 2000, Α Vol. 74. No. 23, pages 11230-11239. 11, 13-21, 23-25, 28-36, 50-101 1-4, 6, 7, 9, 10, 12, 22, Х KETTLE. S. Vaccinia virus serpin B12R (SPI-2) inhibits interleukin1-beta converting enzyme and protects virus-infected cells from TNF- and Fas-mediated apoptosis, but does not 26, 27, 37-40 prevent IL-1-beta induced fever J. Gen. Vir. 1997, Vol. 78. pages 677-685. Α 41-49 110, 111, 113 х MULLEN. T. Viral Oncolysis 2002, The Oncol. Vol. 7. pages 106-119. 50-101, 108, 109 Α MCCART, J.A. Systemic Cancer Therapy with a Tumor-selective Vaccinia Virus Mutant 110, 111 Х Lacking Thymidine Kinase and Vaccinia Growth Factor Genes Cancer Res. December 2001, 50-101, 108, 109 Vol. 61. pages 8751-8757. Further documents are listed in the continuation of Box C. See natent family annex. later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention Special categories of cited documents: document defining the general state of the art which is not considered to be of particular relevant "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone earlier application or patent published on or after the international filing date document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination specified) being obvious to a person skilled in the art On document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the -&document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report

Authorized office

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Name and mailing address of the ISA/US

Commissioner of Patents P.O. Box 1450

Mail Stop PCT, Attn: ISA/US

25 June 2005 (25.06.2005)

T/US		

## INTERNATIONAL SEARCH REPORT

ategory *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
Х	MCCART. J.A. Complex interaction between the replicating oncolytic effect and the enzyme/prodrug effect of vaccinia-mediated tumor regression Gene Th. 2000, Vol. 7. pages 1217-1223.	102, 103, 112, 114
x	VANDERPLASSCHEN. A. Extracellular enveloped vaccinia virus is resistant to complement because of incorporation of host complement control proteins into its envelope Proc. Nat.	115-117
Α	Acad. Sci. June 1998, vol. 95. pages 7544-7549.	104-107, 118-120
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